December 1980 Vol.IX No.10 Second class postage paid at Dallas Texas Postal Identification

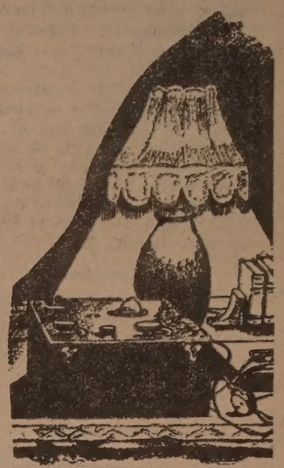
Publisher, Jim Cranshaw Monthly except July and August Statement, page 2

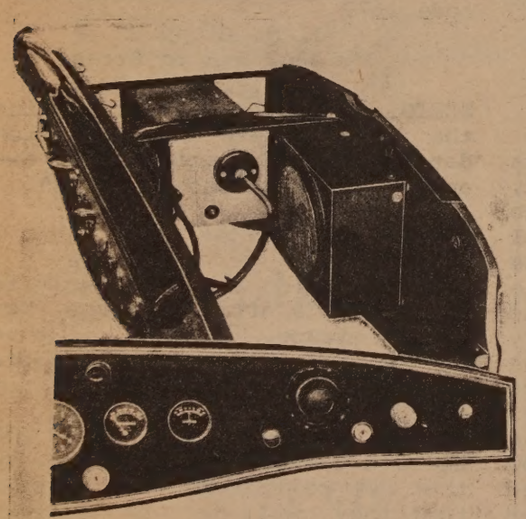
Price $7.00 yearly Single issue $1.00

THE NEWSPAPER FOR
THE HOBBYIST OF VINTAGE
ELECTRONICS AND SOUND

THE HORN SPEAKER

RADIO NEWS FOR JANUARY, 1930





Above: Tuning in a Transitone Auto-Radio receiver. At the left: assembly details and the dash-board layout of a Delco-Remy Cadillac installation. The loud speaker is mounted behind the dash, near the receiver

The Recent Radio News Survey Indicates Tremendous Possibilities in This Field, Which Manufacturers and the Radio Public Have Been Quick to Recognize

By Arthur H. Lynch

WE have been operating radio receivers in motor cars for a number of years. In fact, during the Presidential Conventions five years ago we had a receiver in a touring car parked outside Madison Square Garden, where a large overflow crowd was enabled to hear the proceedings inside. In those days the receiving was done with a superheterodyne and a loop installed in a convenient portion of the tonneau. At other times similar installations were made in coupes and sedans, and occasionally we treated Broadway crowds to radio concerts and fought our way through the traffic jams during the theatre hours. Since that time some people have come to realize that a radio receiver on an automobile is a desirable thing.

We find also that the Delco-Remy Company, a manufacturing subsidiary of the General Motors Corporation, is offering complete radio receivers for sale through Cadillac and La Salle dealers.

Some time ago the Radio Frequency Laboratories of Boonton, New Jersey, designed a remote control receiver for use in airplanes, which has proved so successful that they have now turned their attention to broadcast receivers for motor cars.

The automobile models follow the same general design as those made for airplanes, and this company is in a position to cooperate with automobile manufacturers in fitting receivers to any make of car.

The dimensions of one model of the RFL receiver are eleven inches long, seven inches high, and six inches deep. With tubes, cable, and volume control the weight is ten pounds, two ounces. The volume control knob appears on the instrument board and varies the control grid bias on the radio amplifier tubes.

One of the first concerns to enter the auto-radio field was the Automobile Radio Corporation, 37 Queens Boulevard, Long Island City, New York, makers of the "Transitone" receiver. Branches of this organization in all principal cities of the United States are prepared to install radio equipment in every make of automobile. This six-tube outfit consists of three stages of tuned radio-frequency, a detector, and two stages of audio-frequency amplification. A power tube is used in the last stage, and the entire receiver is enclosed in a copper box which serves as the necessary shield.

After several conferences with some of the most important manufacturers in the country, we find that there is a constantly growing demand for information regarding the various types of receivers designed for automobile use, and the various systems for eliminating some of the defects encountered where these installations are made. Among the service men and operators of garages and filling stations there is a rapidly growing demand for automobile receiver kits. RADIO NEWS has already spent thousands of dollars in investigating the field for the application of automobile receivers as well as the technical requirements which the use of these receivers involves. This introductory article indicates the line along which we are working, and in succeeding articles we shall provide our readers with definite technical information from which they may duplicate the results we have obtained.

The Circuit

From sad experience we have found that ordinary radio receivers will not function satisfactorily when bounced around in an automobile. Furthermore it is necessary in choosing a circuit to give serious consideration to the size of the automobile battery, the charging rate of the generator on the car, the number of tubes it will be necessary to use, and the character of reception we are going to demand. For ordinary purposes we recommend the use of not more than two stages of tuned radio-frequency with some suitable audio amplifying system. Our own experience indicates that, for a number of reasons, resistance coupling is desirable. In the development of a circuit of this character it is necessary, in order to receive from local stations, to provide very much greater sensitivity in the radio-frequency circuit than is required with the ordinary broadcast receiver, where it is possible to use a good sized antenna and a satisfactory ground. In order to obtain this result we have used a screen-grid blocking tube in the antenna circuit, 2 screen-grid radio-frequency stages feeding into a hi-mu tube operating as a detector and feeding into a screen-grid resistance-coupled audio tube having as a second stage a standard 112 output tube. Some output filter device should be used to prevent the high voltage from the B batteries passing through the leads to the loud speaker.

In choosing tubes for a receiver of this character, best results can be obtained if the heater type a.c. tubes are employed in a series parallel connection. There are three reasons for using tubes of this character: First, they are not as fragile as battery-operated screen-grid tubes; secondly, they are less microphonic and thirdly, the amplification per stage is greater when they are used. There is one serious drawback, however, which results from the increased filament consumption of tubes of this nature. This is particu-

larly bad when the car is equipped with a small battery and you are operating a receiver with a heavy filament drain during the winter months. This is especially noticeable when you make a number of short runs and are frequently starting and stopping. The combined drain occasioned by this starting and the use of the radio receiver means that your battery will run down faster than it can be charged by the generator. If an attempt is made to compensate for this deficiency by increasing the charging rate of the generator, you run the risk of burning out the winding. Therefore, in some of the receivers with which we have been experimenting, a compromise has been effected by using the ordinary type of battery-operated tube.

Receiver Suspension

We have attempted to get the maximum gain out of our radio-frequency and audio-frequency circuits. We also have tried to overcome the shortcomings of filament fragility, as well as possible microphonic noises, by suspending both the socket supporting panel and the entire receiver on springs.

We believe that the ideal radio receiver for automobile use should have the following qualifications: It should be compact, light, completely self-contained, sensitive, comparatively selective, capable of producing good tone quality, and both water and dust-proof. The system found to be most satisfactory is that of building a good circuit into a metallic housing, with all of the seams of this housing made both water and dust-proof by the application of parafine-soaked felt inside the seams. Such a receiver has been built into a brass case measuring 7x7x14 inches. The entire assemblage may be mounted in any part of a car, such as under the back seat, under the front dashboard, directly to the baffle plate which supports the motor section from the inside of the tonneau; or, for that matter, it may be mounted on brackets under the hood and directly above the motor, as is done with some of the cars made by General Motors. A switch, volume control and dial are mounted on the dashboard or in any other convenient part of the car, and the receiver itself is operated by a remote control.

An ideal way to mount the receiver is to make two brackets out of wrought iron and hang them from the chassis, so as to provide an anchorage similar to those used for carrying the storage battery on most cars. Precaution should be taken, however, to make these brackets large enough to provide either spring or cushioned rubber suspension for the receiver itself. The proper type of shock-absorbing suspension will take up most of the road shocks, and will result in better reception as well as increased tube life.

Remote Control

In conneciton with the remote controls we find that flexible shafting, such as is used in dental drilling machinery, is ideal when it is combined with reduction gears. We have been able to secure suitable cable from the S. S. White Dental Company, and the Boston Gear Works has provided us with the various worm and pinion gears having a reduction ratio of 20 to 1. One set of gears is used between the dial shaft and the dental cable, and the other set forms the connection between the flexible shaft and variable condenser. No fittings suitable for use with these gears are available at present, and they must be made by hand. This is a comparatively delicate undertaking and requires more than ordinary skill with tools.

A forthcoming issue of RADIO NEWS will contain complete details for making an assemblage of this character.

Shielding

In connection with the remote control of the receiver we have found that a great deal of the noise caused by the ignition system used on the motor can be eliminated by properly shielding the wires leading from the receiver itself to the control panel, and to the B batteries. In order to bring about this result we have used No. 14 paired armored cable, and we have run the group of wires used in the B battery circuit through a metallic sleeve.

letters

Dear Jim:

Thanks for the renewal notice. Would have forgotten all about renewing my subscription. Hate to miss a single issue of your fine paper. Will renew for 2 years.

Have found some nice goodies this past summer, among them a nice Scott All-Wave 15 and a Pilot 3 inch TV. Had to go away from home to find tho, not much in old radios in the Chattanooga area... Sad, it must have been thrown away.

Again, thanks for the notice and keep up the good work.

Best Regards,
Rick Taylor
7136 E. Lea Road
Chattanooga, TN 37421

Dear Jim:

Thank you for your kindness in sending me your renewal card, as my present subscription to your fine paper has expired. I believe you have one of the finest papers available on the art of antique phonograph and radio collecting. I especially appreciate your fine articles on the restoration of antique phonograph sound boxes. Also appreciate the resume of the many fine letters from fellow collectors which are published in each issue. Thank you for the publication of a fine paper. Please renew my present subscription for a period of two years. My remittance in the amount of twelve dollars is enclosed.

My sincerest regards,
Howard C. Bergstrom
5142 Grant Street
Omaha, Nebraska 68104

"Hornspeaker" , I enjoy your magazine very much. I would like to see it is an 8 1/2 X 11 form, however so we could store them without so much room.

I have a suggestion for those who have a hard time rewhitening dials, letters on panels, etc. I bought a tire whiting stich at a drug store and it is the best I have tried. The name is "CAL CUSTOM, Cal 90745.

Cut off the hard outer coating and you are in business. One problem which I havent found a solution as yet is how to fill in scratched numbers, names, etc. from old panels. I have tried melted crayons, but no good. About to dismantle and sand the whole panel down??? Have covered some with those old labels of metal with aerial, ground, B plus, etc. but some wont cover very well. Any suggestions? Would like to find some tubing to make tube sockets for UV99 tubes. It is an inch inside diameter and none available so far.

I cant tell when my subscription expires--- How do you code it??

J. N. Clapp
1202 W 5 th Street
DeWitt, Iowa 52742

EDITOR...The numbers following the "S" indicate the expiration date of a subscription. For example, S1280 is December 1980.

Dear Jim:

I would like to reply to Mr. Sarver's article in the November issue. I feel that he has me all wrong. I advocate paying a fair price, but not going over-board.

I advocate obtaining all the old radios that one can, for then we collectors can be sure that they will not be junked.

POSTAL IDENTIFICATION STATEMENT
The Horn Speaker (USPS 956120) is published monthly, except July and August by Jim Cranshaw, 9820 Silver Meadow Dr., Dallas, Texas 75217. Subscription rates are $7.00 per year, $12.00 two years. Second-class postage paid at Dallas, Texas. POSTMASTER: Send address changes to The Horn Speaker, P.O. Box 53012, Dallas TX 75253.

Subscribers, advertisers, photographers and writers, please use the following address;
THE HORN SPEAKER
P.O. BOX 53012
DALLAS TX 75253

Smith and colleagues check the results of a recent experiment.

Peninsulan Is too Busy for Retirement

The Pampered Hamper

ODDS-'N -ENDS

SALE

• *SHEETS* • *PILLOW CASES*
• *BEDSPREADS* • *TOWELS*
• *ELECTRIC BLANKETS*
• *ACCESSORIES*

up to

50% OFF

The Pampered Hamper

Now exclusively in . . .

CARMEL PLAZA (Third Level) • 624-5144

(Continued)

During his first year of married life, Smith also invented a remote control for radios, only to have his young wife decline to use one. "It's just as easy to get up and turn the thing on or off," she said.

"The life of an inventor is frequently difficult," wryly remarked K. R.

In the early 1950s the K. R. Smith Co. was formed, for the purpose of producing custom radio broadcast transcriptions and phonograph records. Optimum quality was Smith's goal, ranging from barely audible bass notes to the highest overtones, with all the fequencies between, some of them running to 12,000 vibrations per second. "To be able to capture and mold this into a finished vinyl record was something of an achievement," he said.

Recognition of this achievement came when he was named to head the Standards Committee of the National Association of Broadcasters, establishing standards for recording and reproducing.

"The techniques for recording have improved immeasurably between the early days and the present," he commented. "Today, microphones are even being placed on every instrument in the orchestra, with the sound taped on separate channels. In the final assembly, all these tapes are blended together and individual instuments are accentuated in the orchestration to suit the taste of the director."

It was in his Rye, N.Y., research plant that K. R. developed the seamless embossing roll, an invention that is said to have revolutionized the wall covering industry. Until then, such products as wall coverings and shower curtains were available only with seams. The L. E. Carpenter Co. bought this invention and established Smith as president of the Connecticut division, set up to manufacture it.

During this period he was a member of the Aerospace Techniques Panel serving the National Academy of Sciences, the objectives being to establish the current capabilities of electroforming and to outline the needs for development in order to meet requirements for 1980.

"I think the development of electroforming is the most interesting activity in which I've ever participated," he said. "It's an electro-chemical method of fabricating metal, and I admit that it sounds highly technical when I try to explain it for the layman."

In the industry, he is known for the following contributions: the metalizing of wax and sulfamated castor oil cellulose nitrate blanks for phonograph records and radio transcriptions; high speed electroforming using rapid circulation of electrolyte and a rotating anode and cathode in a closed system where quality deposits are obtained utilizing over 600 amperes per square foot; evaluating biopolar, auxiliary and conforming anodes to determine which system is best suited for the many configurations of electroforms.

Do you understand all that? Don't worry; you have lots of company.

Now, at age 78, K. R. Smith is still a tireless, nonstop worker, constantly on the move as an engineering consultant, active, alert, with a fine sense of humor, and at present doing research work on solar lenses for one of his clients.

He picked up a technical magazine to read a description of a consultant:

"A consultant is a person who borrows your watch to see the time and then keeps the watch."

He laughed heartly, then in answer to a question about the difficulties of being an inventor, replied that "the hardest part is sticking with it, and realizing that somewhere along the line you may see an entirely different angle, which may necessitate rethinking what has gone before, or may be the answer to another problem."

In 1968 the Smiths moved to Carmel Valley from the East Coast. Their son, also named Kobert Reynierson Smith, was then taking a postgraduate course at Stanford. (A grandson, with the identical name, is now at Princeton). After making the trip to California to visit their son, Connie Smith persuaded her husband that "you can consult here just as well as in the East."

In 1974 K. R. received the Frank E. Lane Industrial Award, presented by the American Electroplaters' Socity in recognition of his contributions to the metal fabrication industry.

"It's a field that opens many doors of learning about subjects that one might normally have only a passing knowledge of," he said. "Such as sound, radar, light, photography, plastics, art, design, strength of materials, thermodynamics, satellites, space vehicles, weather forecasting, fuel cells, printing, and various manufacturing techniques.

"No, I have no intention of retiring. I have projects running through 1980. In any case, I've made a date for the year 2000 — when I'll be 99 — to have dinner with all my colleagues throughout the years, who are still around. And if I'm still working, it will give me something to talk about." □

time and demanded new material. Now they're collectors' items."

Smith has an extensive collection of such discs, which he is in the process of shipping to the Library of Congress.

The first actor to be used on the early transcriptions he said, was Pat Barnes, known for his ability to mimic the voices of people of many different ages. And the subject matter was a commercial for Maytag Washing Machines.

Warner Bros., who had made the first all-sound motion picture in 1927, "The Jazz Singer," with Al Jolson, bought out Brunswick's record division in 1928 and moved it to New York City. Smith went along.

"Up until 1932," he said, "records were made on wax, which was shaved until it shone like a mirror, and was then engraved with a sapphire stylus. With the help of another inventor named Gruber, we developed a plastic-coated aluminum blank which replaced the wax. After the surface was engraved with the music or program, it was covered with silver, using the same method that is used to make a mirror from plate glass. Metal is then plated on the silver until it is thick enough to form a mold, with the grooves in reverse."

"From this mold, regular records were pressed, duplicates of what the stylus had recorded. They used to be made of shellac, which was very brittle and broke if it was dropped. Then vinyl replaced the shellac. This was the procedure until after World War II.

"It was found that the Germans had developed a magnetic tape to a higher degree of perfection than had been attained in this country, so the German method was brought back to the U.S. and several companies took advantage of it here.

"Tape was a godsend; it could be played over and over again. In recording with an expensive orchestra you might make two tapes, so that if one went bad for any reason while the master recording was being made, you could switch to the other. In the old days, if anything went bad, you might have to bring the entire orchestra back for a second attempt."

It was during this Brunswick-Warner period that Smith originated and developed the silver reduction process of precipitating metallic silver on a nonconductive surface for the purpose of electroforming, a profession he pioneered and in which he has engaged now for more than 45 years.

In 1930 he became a charter member of a group which formed Decca Records, serving again as chief engineer. His responsibilities were to develop the recording and manufacturing techniques that would yield a high-quality, low-cost phonograph record. He established Decca's recording, manufacturing, processing and pressing plants, then went to Phillips Millerfilm as a vice president, working on development of the first sound on tape for commercial use in radio broadcasting and home entertainment.

At Decca, he recalls, a young chap named Bing Crosby came to the penthouse studio at 799 Seventh Avenue to make his first record. "He looked hard up, in an old sweater and with holes in the soles of his shoes. Though I must say he didn't dress a whole lot better when he was in the money. No, I don't remember what the number was which he sang. It was something current at the time.

"I was on the controls. This was before he had been signed as a vocalist by any orchestra, and it was to be two or three years before he caught on. He had a pleasant approach — he had come on his own — but I don't recollect having any inkling as to what a star he was to become."

As Bing Crosby became better known during the 1930's, he returned again and again to Decca. "He really made Decca," said Smith. "He became a permanent Decca artist."

Among the other recording artists of that era were the following orchestra leaders and their instrumentalists: Guy Lombardo, Abe Lyman, Glenn Miller, Louis Katzman — "a fantastic ear; he could identify E flat four octaves above middle C when I struck the note on the audio oscillator — a note pitched so high, it is almost inaudible to the average ear," said Smith.

And he went on with the list, many of them long-term Decca artists: Emile Coleman, d'Artega, Harry Horlick, Xavier Cugat; Horace Heidt, Bernard Lavitow (symphonies), Edwin Franko Goldman (marching band), and such solo performers as organist Jesse Crawford, Ozzie Nelson, Russ Morgan and Clyde McCoy.

Smith played for this writer an old wax record of McCoy on trumpet, with orchestra, playing "Sugar Blues," "I've Found a New Baby," and on the flip side, "Black and Tan Fantasy." The quality was amazingly good.

"I remember an occasion when Crosby, in the middle of a song, forgot the words and made up a new set as he went along," said Smith. "They were slightly on the risque side, which amazed us all, as we had thought of him as a rather straight-laced, religious young man. I want to say this about Bing — he was outstanding as an artist who became a great success and never forgot the people who worked with him. Your work had to make these wingers and others sound at their best, and a lot of them just take it for granted.

"Guy Lombardo was a fine but tough band leader; he wanted everything just so," Smith continued to remininsce. "He wouldn't let you record until he had heard everything on the monitor. He was a perfectionist, the only orchestra leader who had a drawing showing the positioning of every instrument with relation to the microphone."

In 1932 Smith met his bride-to-be, Constance Boland, an advertising copywriter for Young & Rubicam, and later for other New York advertising agencies.

"I remember that I was writing a Borden's Cheese ad at the time," she said, "and sharing an apartment in Tubor City with a friend, Doreen Grainger. We lived on tomato soup. Doreen had all the fancy dates, but her boy friend of the moment, Edwin Stevens, had an apartment across the street, which he shared with one K. R. Smith. One evening, Edwin came over for a date with Doreen, and seeing me alone, phoned Smith to meet me for a double date. Because they were talking at the top of their lungs, I could also hear Smith saying that he didn't want to come, he was getting ready for bed.

"However, in a little while he showed up. The first thing I noticed was that K. R. was wearing no socks. Years later I learned that he had put his suit on over his pajamas. That first date got nowhere and I never expected to hear from him again. So I was surprised a week or so later when he invited me out in his green Chrysler roadster. He was not a big spender because he was sending money home to help with the education of his younger brothers and sisters. Money or no money, we were married the following year."

In the late 1930s Smith received an offer to start an operation for producing wired systems for background music in restaurants, offices and factories. He coined the name "Muzak" to replace the name "wired music," and was named executive vice president and director of Associated Music Publishers, Muzak Transcriptions and Muzak Corp. Once again, he set up recording studios, processing and pressing plants, and resolved a method of equalizing standard telephone lines for high quality transmissions of music, as against the proposed use of costly special transmission lines.

All of his inventions, he said, stem from his early recording experiences. Some didn't receive patents, he added, because they didn't have broad enough application. He participated in the development of a system designed to identify sonar underwater signals, and in collaboration with Bell Telephone Laboratories produced and manufactured a series of coded transcriptions for the U.S. government.

These were used by the Cryptographic Division to transmit messages between the U.S. Armed Forces and their Allies during World War II. The code, said Smith, was never broken. He also collaborated with Harrison Brailsford in the development of Codesonde, a meteorological device that could be dropped from a plane for long-range weather forecasting. K. R.'s contribution was the production of the code disc.

"It was like a little phonograph record, with grooves containing the Morse Code," he explained.

(Continued)

As a hobby, Smith occasionally encapsulates flowers, weeds, vines and flowers in copper flashed with nickel. Here he is holding an oversized grape leaf destined for encapsulation, while Mrs. Smith holds a delicate rose mounted on a walnut base.

cooks' club

PRESENTS A CONTINUING SERIES OF DEMONSTRATIONS AND CLASSES. THE DEMONSTRATIONS ARE FREE: THEY BEGIN ABOUT 11:00 AND ARE CONTINUOUS THROUGH THE EARLY AFTERNOON. FOR INFORMATION ON THE CLASSES, CALL 625-0100.

APRIL 18 - CLASS - FRENCH PASTRY (10-2) - $10
FOR DESSERT LOVERS ONLY! LEARN THE BASICS OF THE ART AND MAKE THREE EXQUISITE EXAMPLES.
APRIL 21 - CLASS - SIMPLY MEXICAN MENU (10-1) - $6
FEATURES THREE DISHES AS FOLLOWS! CHICKEN IN GREEN MOLE, SNAPPER VERACRUZ, BEAN ROLL. RECIPES INCLUDED.
APRIL 21 - DEMO - DESSERT CREPES - FREE

The Peppercorn

THE BARNYARD
CARMEL

They will be treated with the respect they deserved -- and kept in our collections for future generations to view.

Most of the radios I have purchased were sold to me for a small price, or given to me because the persons knew that they would be well treated. They had no use for them anymore, and their children just weren't interested. I saved them from a junk pile.

Many of us collectors are in their sixties or better, and are now existing on Social Security. This type of fixed income leaves very little money to purchase radios -- cheap or not. Yet we dearly want to see these radios kept for posterity. Therefore it is a necessity to hold down the price when purchasing one. If we had the ready cash to spend, sure we would gladly pay a higher price -- but place yourself in our position.

I never sell one of the radios for a large profit. I sell only those that I have several of one model, and then only to persons who are starting to collect. If I make $5.00 on a set I am happy, for I know that I have helped start another person to preserve our past.

Please remember us "old guys" who do not have the money to pay higher prices. Yet, we sincerely want to preserve the radios we grew up with. We are not out to make a fast buck on our excess radios. At least I am not.

Respectfully
George Friedrich
7162 Jacqueline Lane
Custer, Wisconsin
54423

Dear Jim:

Rec. reminder notice today. And must respond now - "don't wanna forget" - I'd be lost not being able to read The Horn Speaker.

I must say, the "Horn Speaker" is truly a fine magazine, and I really enjoy it. Thanks.

Regards,
Jack D. Minnaert
409 J. Ave. N.W.
Cedar Rapids, Iowa
52405

Dear Jim:

Boy, that letter from George Friedrich in your October issue really takes the cake. Hold down publicity about our hobby until he can amass a large stock of sets, then go out all out with a national publicity effort to create demand and allow him to unload them at inflated prices.

Most collectors are driven by motives somewhat nobler than this. They appreciate the historical significance of these old sets and the part they played in the development of electronics technology and the American culture. Some of the old sets are classics of craftsmanship and design and when restored are a fascination and a delight to young and old, neophyte and expert. Many restored sets are displayed in museums, public and private. Then there is a great satisfaction and pride real collectors get from a good restoration job. I hate to see the game spoiled by crass commercialization and ruled by the almighty dollar sign.

George complains about depressed prices, yet he contributes to it by telling antiques dealers and auctioneers that the sets are of little value. Whatever happened to old fashioned honesty George.

Frank Kohl
7116 Capitol View Dr.
McLean, VA 22101

Gentlemen:

I enclose an ad for one of your future issues. Have enjoyed your articles very much. At my age it don't take much to please me. I grow kind of down -- when I think of the good old days of early radio.

I made my first crystal set in a little old workshop on our farm. Had plenty of black walnut so anything worthwhile was made with walnut -- even today when I get a console cabinet -- cheap set -- PINE CABINET. Real nice set BLACK WALNUT. (The mahogany from Phillipines is surely no substitute for the beautiful Honduras used "ny" AK)

AND HOW THE MAGAZINE PUBLISHERS PULLED OUR LEGS -- Plenty of experts (ON PAPER)

I still remember the first time I turned on my homemade crystal set -- In those days we had to have a huge slate base lightning switch. When I threw over that switch the headphones almost fell off the desk.

My Dad was so excited he would have given me the farm right then. WOC at Davenport, Iowa was about 12 miles from our farm. We used batteries for lights --- no interference --- wooden windmill tower, 100 feet into my bedroom window and grounded with a lightning rod cable to a well casing. BOY WHAT A SET UP... THEM WERE THE DAYS I DREAM OF....

J. N. Clapp
1202 W 5 th Street
DeWitt, Iowa 52742

club news

BEST EVER

Had a great time at Canandaigua A. W. A. Meet. Best ever. Any that don't get to it are really missing a wonderful time.

R. Chester Wisner
Dalton MA 01226

MID-AMERICA ANTIQUE RADIO CLUB

The winners of our contest at our last meeting, November 2, were as follows: BATTERY RADIOS first prize, NAFR 4 tube regenerative from St. Louis - Bob Lane; second prize, Precision Ace 1922 tuner - Jon Walker; kit made in Kansas - Will Jensby. AC SETS first prize, blue glass mirrored Sparton - Dale Monagren; second prize, Abbotware hula dancing girl radio - Marion Ganote; third prize, Dionne quints radio - Vern Paterson.

Gary Barnhart won first prize of the crystal sets with a Lalley Electric. Bob Lane won second prize with a Gunlock-Manhatten. In "radios related" Marion Ganote won first prize with a Holtz Static Machine. Don Yoder won second prize with a Huge WLS-B Battery. And Bob Lane won a third prize with an early Omnigraph.

Bob Lane gave a talk on the early pioneers of wireless. He suggested that the earliest one to put out radio waves at a distance with an antenna was Benjamin Franklin when he flew a kite in a storm making sparks with a key attached to the kite string. Can anyone remember anyone earlier?

Our next meeting is April 12, 1981, Psalm Sunday, at the Kansas City Museum. The meet will include our annual radio auction. We are sending out 24 page bulletins. 4 times a year. Dues are $5.00 per year payable to Bob Lane, 2301 Independence Avenue, Kansas City Missouri 64124.

VRPS WINNERS

Two winners have been reported to us.

Thomas H. Burgess won the Best of Show Trophy for radios at the 1980 Vintage Radio and phonograph Society during the first week-end of November. Tom, who is from Little Rock, Arkansas, won the contest with his scanning disc television demonstration. Rick Wilkins won the top trophy in the phonograph division.

FIRST ANNUAL MEET

Rosemary Dittmer, secretary of the Antique Radio Club of Illinois, sent us the following information.

The Antique Radio Club of Illinois held its first Annual Meeting on October 26, 1980 in Mt. Prospect, Illinois. It is a pleasure to report that our meetings have been very well attended. The members are enthusiastic and, hopefully, in the future, even more members will be able to attend and enjoy with us the "radio talk" and mutual interests.

The ARCI elected officers for 1981 are: Joe Willis, president; Barry Janov, vice president; Larry Wright, treasurer; Rosemary Dittmer, secretary. Any of the officers are available if you desire any information regarding the club.

We awarded the 1st Annual Scaarf Award to Gil Schlehmann for his outstanding versatility at Canandaigua. Notably, Gil decided to open the AWARD in private rather than at the meeting. I'm sure that we will be hearing of this AWARD in the future.

In honor of a fine gentleman, it was voted to make Eric Shatkhauser an honorary member of the club.

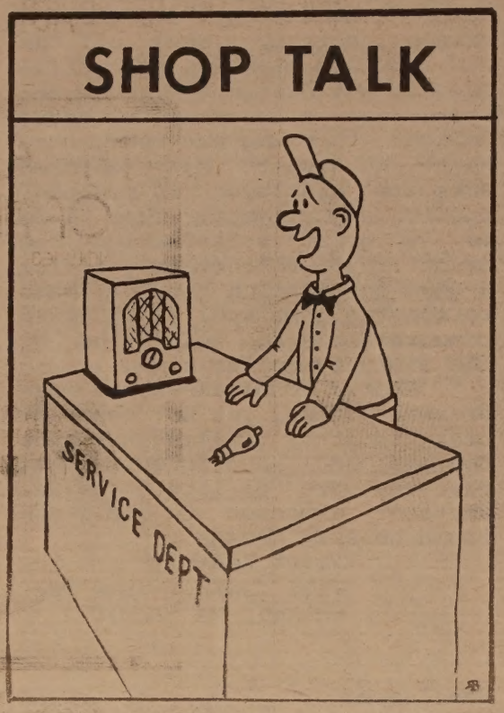
In other news, the meetings for 1981 have been tentatively set up. The first meeting will be held on February 21, 1981 at the Holiday Inn in Elgin Illinois.

We plan a sell and swap meet with the Indiana Club early in May. No formal meeting is planned in connection with this meet. Location and date will be announced at a later date.

On the second Sunday in August 1981 we plan a swap only in conjunction with a large hamfest. Again, time and place to be announced at a later date.

This first year has been interesting and productive. Hopefully, the future will see our Club grow in membership and fellowship.

Rosemary Dittmer,
secretary
ANTIQUE RADIO CLUB
OF ILLINOIS
Route 2, Box 162A
Mundelein, IL 60060



WIRE WOUND VOLUME CONTROLS

by Ron Boucher

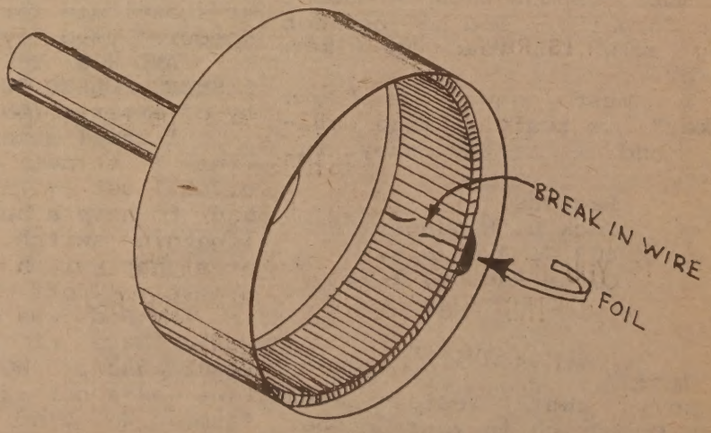
"Necessity is the mother of invention" is a phrase that really applies to antique radio repair. Most jobs are fairly routine with a testing and replacing of capacitors, which usually covers ninety percent of the work. But there is always a fear that one will run into a defective part that is difficult to replace or repair the old part.

An example of this was the "double-decker" volume controls on the early Philco radios such as the model 70. This control has two separate units working together and both are wire wound. The resistance wire is wound around a phonelic strip and that is placed into the inside perimeter of the volume control casing.

I finally ran into a Philco that had a break in the resistance wire of one of these units, so the day had come when I had to invent a way to repair it. What I ended up doing was placing a small wad of aluminum foil under the phonelic strip so that the foil acted as a bridge across the break. You lose a few windings of resistance this way, but not enough to cause any problems. The illustration shows what I did. This method can be used on many types of controls, including the filament rheostats on battery sets.

Fortunately, the Philco control is easy to take apart, which could be a problem with some controls. One more thing, one must be sure that any insulation on the wire must be scraped off, as I know you are aware, so that the foil will make good contact.

VINTAGE RADIO
SERVICING
Ron Boucher
376 Cilley Road
Manchester, NH 03103
(603) 669-1698



PLACEMENT OF FOIL

on a walnut base.

PUETT ELECTRONICS

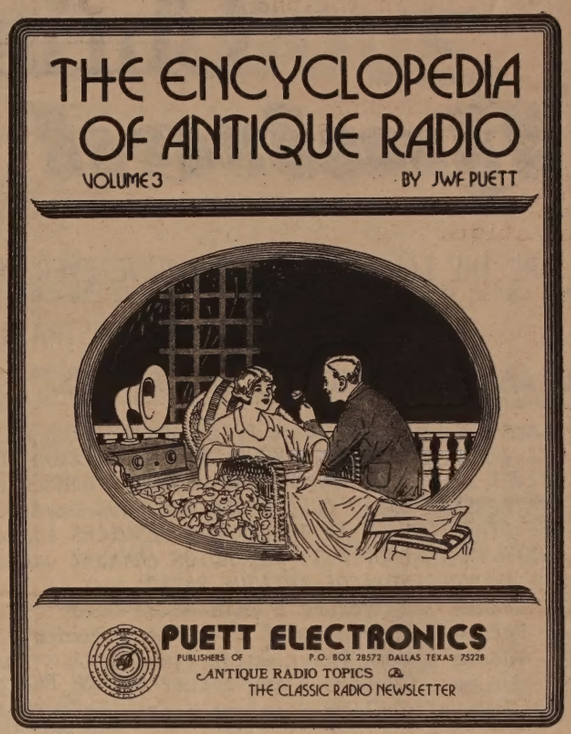
PUBLISHERS OF P.O. BOX 28572 DALLAS TEXAS 75228

ANTIQUE RADIO TOPICS &
THE CLASSIC RADIO NEWSLETTER

MasterCard

VISA

NEW


THE ENCYCLOPEDIA OF ANTIQUE RADIO
VOLUME 3
BY JWF PUETT
PUETT ELECTRONICS
PUBLISHERS OF P.O. BOX 28572 DALLAS TEXAS 75228
ANTIQUE RADIO TOPICS &
THE CLASSIC RADIO NEWSLETTER

SEE "HOW TO ORDER" ON LIST NO. 18A

VOLUME 3 OF THE ENCYCLOPEDIA OF ANTIQUE RADIO WILL CONTAIN MANY EXCITING CATAGORIES:

WIRELESS EQUIPMENT, CRYSTAL SETS, BATTERY POWERED SETS, BATTERY ELIMINATORS, TRANSITION SETS, AC POWERED SETS, PORTABLE RECEIVERS, KIT RADIOS, NOVELTY RADIOS, COMMUNICATIONS RECEIVERS, LOUD SPEAKERS, ACCESSORIES, ETC.

SPECIAL PRE-PUBLICATION OFFER --- ONLY $5.95 FOR VOLUME 3 WITH PRICE GUIDE!!!

THIS REPRESENTS A SAVING OF $4.00 OVER OUR REGULAR ENCYCLOPEDIA PRICE - ORDER TODAY!

VOLUME 3 WILL BE READY FOR SHIPMENT IN THE FIRST WEEK OF DECEMBER - IN PLENTY OF TIME FOR CHRISTMAS. THE ENCYCLOPEDIA OF ANTIQUE RADIO MAKES AN EXCELLENT CHRISTMAS GIFT --- ORDER SEVERAL COPIES TODAY AT THIS SPECIAL DISCOUNT PRICE!!!

IF YOU DO NOT HAVE A COPY OF VOLUME 1 OR VOLUME 2 OF THE ENCYCLOPEDIA, YOU MAY PURCHASE THESE FIRST TWO VOLUMES WITH PRICE GUIDES AT THE FOLLOWING SUPER DISCOUNT PRICES:

VOLUME 1 or VOLUME 2 with PRICE GUIDE . . . . . $4.50 each
VOLUME 1 and VOLUME 2 with PRICE GUIDES (together) $8.50
VOLUME 3 with PRICE GUIDE (just out - available on or before 7 December 1980) $5.95
VOLUME 1, VOLUME 2 and VOLUME 3 with PRICE GUIDES (together) $13.95

YOUR ORDER MUST BE POSTMARKED BEFORE 1 JANUARY 1981 IF YOU WISH TO TAKE ADVANTAGE OF THESE LOW PRICES.

on a walnut base.

PUETT ELECTRONICS

PUBLISHERS OF P.O. BOX 28572 DALLAS TEXAS 75228

ANTIQUE RADIO TOPICS &
THE CLASSIC RADIO NEWSLETTER

Christmas Limited Offer

HERE ARE THE LOWEST PRICES WE HAVE EVER OFFERED! IN APPRECIATION OF YOUR PATRONAGE, WE OFFER THE FOLLOWING DISCOUNTS:

YOUR ORDER MUST BE POSTMARKED BEFORE 1 JANUARY 1981 IF YOU WISH TO PURCHASE AT THESE PRICES:

ALL PRICES ARE POSTPAID!

MasterCard VISA

BOOKS AND PUBLICATIONS:

(1) Renew or institute your 1981 subscription to ANTIQUE RADIO TOPICS ($1.00 off) $9.00
(2) All five of our RADIO BOOKLETS Acquisition, Battery, AC, Tubes, etc. (save $2.50) . . . $4.50
(3) SILVER GHOSTS schematic and photo of nearly every Scott set! (save $3.00) $5.95
(4) THE CLASSIC RADIO COLLECTORS HANDBOOK Scott & McMurdo Silver (IBM photocopy). $6.50
(5) THE DIRECTORY OF ANTIQUE RADIO SERVICES sources for parts and services $1.50
(6) THE APPRAISAL OF ANTIQUE RADIOS current values ($1.45 off our regular price) $3.50
(7) THE ENCYCLOPEDIA OF ANTIQUE RADIO:
Volume 1 or Volume 2 with Price Guide $4.50
Volume 1 and Volume 2 with Price Guides (together) $8.50
Volume 3 with Price Guide (just out!) $5.95
Volume 1, Volume 2 and Volume 3 with Price Guides (together) $13.95
(7) ANY SCHEMATIC DIAGRAM in our files (save 50¢) order as many as you like! $1.00

OLD TIME RADIO PROGRAMS -- AMOS & ANDY, FIBBER McGEE & MOLLY, INNER SANCTUM, ETC.
YOUR CHOICE OF ANY SIX OF OUR O.T.R. CASSETTES (regularly $2.25 each) - ORDER AS MANY AS YOU LIKE IN GROUPS OF SIX! --- THIS IS THE VERY LOWEST PRICE WE HAVE EVER OFFERED! . . $10.50

TRIAD INTERSTAGE AUDIO TRANSFORMERS WE HAVE ONLY THREE TO OFFER AT THIS PRICE
New in original carton from our supplier Triad type A-31X (our catalog price $11.95) . . $7.95

TUBES --- Here's a chance to stock up! Buy a spare set of tubes for your favorite set today!

OFFER NO. 1 -- 30% off on ALL TUBES LISTED IN OUR CURRENT CATALOG which we have in stock at the time your order is received! No limit on the size of your order.
OFFER NO. 2 -- 50% off (half price) on the following tube types: NOTE - You may NOT apply the 30% discount in OFFER NO. 1 above in addition to this half-price offer.
1A5, 1A6, 1C5, 1C6, 1E7, 1F5, 1H5, 1LN5, 1N5, 1P5, 1Q5, 1T5, 5U4, 5Z3, 6A6, 6AG7, 6B8, 6C5, 6C8, 6F8, 6G6, 6N7, 6R7, 6SJ7, 6SK7, 6SN7, 6SR7, 6V6, 6Y6, 12SA7, 12SF5, 12SL7, 12SR7, 12Z3, 31, 39/44, 45Z5, 46, 56, 76, 117P7.

FREE WITH YOUR ORDER!!! --- YOU MUST REQUEST THE FREE ITEMS YOU DESIRE WITH YOUR ORDER:

If your order exceeds $5.00 - FREE - PUETT ELECTRONICS LATEST CATALOG (a $1.00 value).
If your order exceeds $10.00 - FREE - 1936 Scott News reprint with photos of 48-tube Scott radio.
If your order exceeds $15.00 - FREE - V10/N5 of ANTIQUE RADIO TOPICS photo of Atwater Kent No. 8.
If your order exceeds $25.00 - FREE - ANY ONE TUBE listed in our catalog which we have in stock.
If your order exceeds $50.00 - FREE - ANY TWO TUBES listed in our catalog which we have in stock.
If your order exceeds $75.00 - FREE - ANY THREE TUBES listed in our catalog which we have in stock.
If your order exceeds $100.00 - FREE - ANY CURRENTLY PUBLISHED BOOK WHICH WE OFFER!

THESE FREE ITEMS ARE CUMULATIVE. FOR EXAMPLE, IF YOUR ORDER EXCEEDS $100.00, YOU MAY REQUEST ALL OF THE FREE ITEMS OFFERED. YOU BECOME ELIGIBLE FOR MORE FREE ITEMS AS YOUR ORDER SIZE INCREASES.

WANTED CROSLEY RADIOS ★ PARTS

TRADES FOR THE ABOVE.

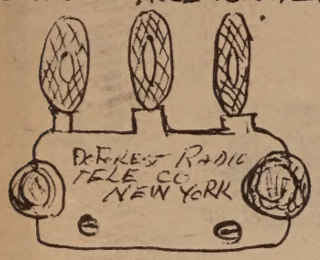
WALTER L. JACKSON
909 NE 11th
GRAND PRAIRIE 75050
214-262-7855 TEXAS
Evenings & Week-ends

I will consider your offer of CROSLEY RADIOS & PARTS (prior to 1930). The below radios are NOT for sale,...for trade only.

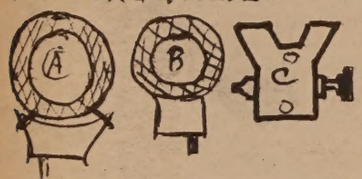
1. GREBE CR 9. complete, no mods. needs complete clean-up and some owners will want to refinish the cabinet and front panel
2. ATWATER KENT AK 10, page 75. VINTAGE RADIO, this set has been dissambled, no paper labels. components must be refinished, and the board rewired.
3. ZENITH 4R, complete, cleaned, refinished

THE BELOW ITEMS ARE FOR SALE - PLUS POSTAGE - SHIPMENT 3 WEEKS

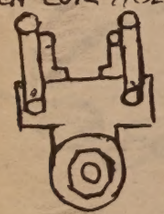
DE FOREST COILS AND ACCESSORIES



Two COIL HOLDERS



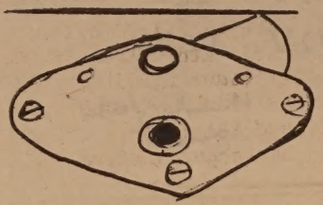
9 EACH WITH BASE (A)
1 EACH WITH OUT BASE
8 EACH VARIOS CUTS (B)
3 EACH COIL HOLDERS (C)



ONE OF THESE

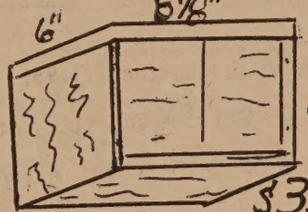
ALL OF THE ABOVE

$60.00



FREED EISEMANN VAR. CONDENSER 5.00
SAME - MARKED SIGNAL 5.00

COLLIN B. KENNEDY AMP. CABINET



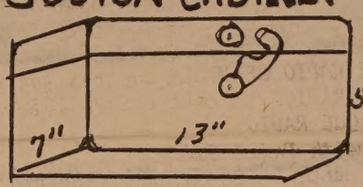
$35

EXC. CONDITION - LABEL TAG COLLIN B. KENNEDY SAINT LOUIS - SAN FRAN. SERIAL NO L11318 W 6

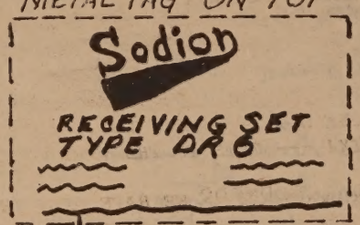
CABINET AS ABOVE - NO LABEL - WOOD STRIPS IN LID MISSING - EXC. 40.00

TWO (2) 1921 TUNING DIALS
GOOD $6.00
EXCELLENT 8.00

SODION CABINET

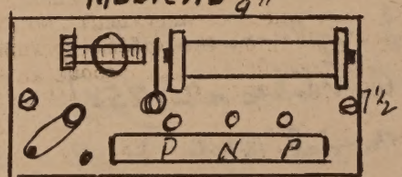


METAL TAG ON TOP



$35.00

MEDICAL



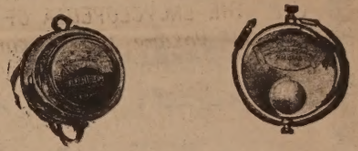
"THE MOLER SYSTEM OF COLLEGES"

$25.00

CANNONBALL PHONOGRAPH ATTACHMENT
CHECKS GOOD
$10.00

WATCH POCKET VOLTMETER.

AREAL FINE COLLECTION



1. READRITE "new std." ampe res" excellent $12.00
2. same as as above, used $8.
3. "beckley-ralston Co" w/ case & leads. exc. $12.00
4. Sterling Mfg Co, new, $15.
5. "Beede Meter" v-amp (3ea) excellent $10. each
6. "ADEMCO" like new 0-35 $10.
7. Ammeter 0-30 (no glass) $4.
8. Battery cker 22.5 to 50v $10.00
9. Sterling volts, 0-120 $12.
10. "Howe" 0-40 A., small, neat, $15.00
11. "SEARS ROEBUCK & CO., V GOOD COND. METER SLUGGISH, $15.00
12. AMERICAN EVER READY CO 0-35 amps $12.00
13. Two-way battery checker, new, perfect $8.00

A LARGE Box OF USED COIL FORMS

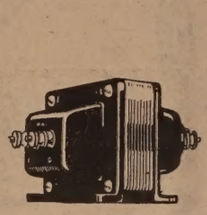
$8.00

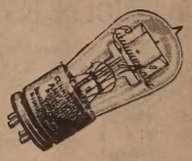
WALTER L. JACKSON
909 NE 11th
GRAND PRAIRIE. TEXAS 75050

OLDE TYME RADIO COMPANY
2445 LYTTONSVILLE ROAD
SILVER SPRING, MARYLAND 20910

For Sale

• AK style battery cable	
5-conductor	.75/ft
6-conductor	1.00/ft
• Brown silk type power cord	.25/ft
• RF, ANT, OSC COILS, IF TRANSFORMERS MOST FREQUENCIES	2.50 EA
• TUBES, 1920 TO 1960. NEW OR USED, STATE YOUR PREFERENCE	WRITE FOR A QUOTE
• EXACT REPLACEMENT HANDLES FOR RADIOLA II AND VIII	4.50
• VIBRATORS, NEW OR USED	
6V - 4 PRONG OR 12V - 4 PRONG	
6V or 12V NEW	5.50
6V or 12V USED	3.00
• Panel meters, many types -- new and used. State needs.	write for quote
• Speakers, PM & Dynamic -- new and used. State needs.	write for quote
• Autogine head phones - used	4.50 ea
• Replacement audio transformers, inter stage and output types	
new	6.00 ea
used	4.00 ea
• Resistor line cord replacement kit 4-tube sets [(2) 6.3V tubes + (2) 25V tubes] at .3A. Model RLC-1	3.50 ea
• Resistor line cord replacement kit 5-tube sets [(3) 6.3V tubes + 2 (25V) tubes] at .3A. Model RLC-2	4.50 ea





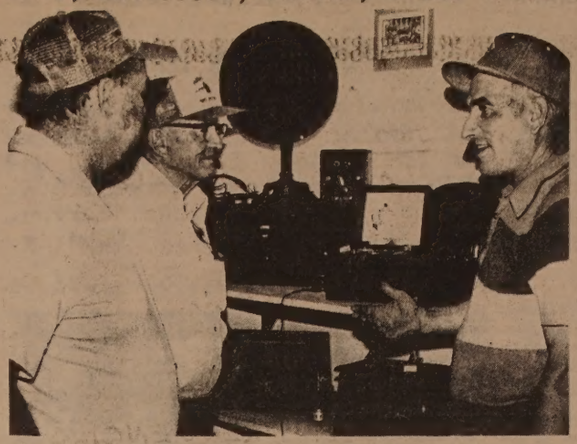
Gauge	Length	
0	1/4"	10 for 50¢
2	3/8"	
1	1/4"	

• Escutcheon and name plate screws Brass - Round Head

PLEASE INCLUDE SUFFICIENT FUNDS TO INCLUDE SHIPPING

on a walnut base.

on the air



THE RADIO COLLECTION of Lyle Schied, right, interested many at the centennial Saturday. Schied's collection was housed in the old bank building, which was also the center for more antiques, newspaper clippings, photographs and other memorabilia. Schied has been collecting radios and restoring them to working order for over 30 years. Admiring the collection were Lee Walls of rural Iroquois and Alvin White of Wessington.

On June 27 and 28 we celebrated our 100th year as a city. As part of that celebration I displayed many of my old radios and phonographs for those who were interested. They could view and hear them play -- even could operate one for themselves to see if they could locate a station or two. Well, over 400 people filed past to view and operate them. All had a great time including me.

As a result of this showing -- met some folks who had some old radios and phonographs. Sure increased my collection my collection greatly with some very fine sets and related items.

Yours truly,
Lyle Scheid
R R No. 1 Box 14
Iroquois, SD 57353

Dear Jim:

Sorry you didn't get to the S.E. AWA Meet last April. Thanx for telling about it in The Horn Speaker. I'm sure it helped to bring over 100 members for the weekend and banquet. Great fun for all.....

Sincerely,
Patsy M. Hicken
P. O. Box 186
Charleston, SC 29402

mart

RATES FOR THE HORN SPEAKER
One year.....$7.00
Two years.....$12.00
Special rates for one year
First class.....$12.00
Foreign air mail.$16.00

List ads - 35¢ per line

AD SPACE:
full page.....$50.00
half page.....$25.00
quarter page..$12.50
multiple runs..... 20% discount

Classified ad rate: 6¢ per word
Photo ads: $2.00 extra
Deadline: 20th of the preceding month.

RADIO TUBES

OLD TUBES
Box 201A
Lookout Mountain, Tenn.
37350

LIST VALID
THROUGH 1980

Proprietor
Walter Smartt
(615) 821-6953
8pm to 11pm

All tubes guaranteed to check out on tube tester for shorts and conductance. In USA you pay $2.00 for each unit of ten,or less,tubes shipped. UPS used in USA unless you state oth rwise. Ask costs on foreign shipment.

Type	new	used	Type	new	used	Type	new	used	Type	new	used	Type	new	used
12A	10	7	34	4	2	45	10	7	50	5	4	83	7	4
19	5	2	35/51	5	3	46	5	3	59	6	4	83V	7	4
22	10	7	36	5	2	47	7	4	75	4	2	84	4	3
24A	6	3	37	5	2	48	6	3	76	4	2	85	15	8
26	6	3	38	4	2	49	5	2	77	4	2	89	4	3
27	6	3	39/44	4	2	50	10	7	78	4	2	1V	10	7
30	5	2	40	-	-	53	15	8	79	4	2	801	10	-
31	5	2	41	5	3	55	6	4	80	5	3	807	10	-
32	5	2	42	5	3	56	4	3	81	7	3	1625	5	-
33	5	2	43	5	3	57	4	3	82	6	3	71A	10	7

RARE TUBES

Type	new	used
WD11(bb)	-	20
WD12(bb)	-	20
UV199(bb)	-	8
UX199(bb/ob)	12	8
UX120	-	8
215A(ob)	12	8
874(ob)	15	-
876(ob)	15	-
UX201A	10	7

Type	new	used
CG1787(bb/ob)	10	-
BH(bb)	10	-
BR(bb/ob)	15	-
VT2(bb/ob)	15	-
VT4C	10	-

bb= bakelite base
ob= orig.box with new tubes

(CG1787 is like UV01A with 3.65v filament)

ARCTURUS BLUE

Type	new	used
39/44	6	-
81	8	-
127	6	-

SPECIAL

3KP1 (will replace 3KP4 in 3rd Pilot TV, but has green fluorescence) $50.00

231D (replaces UX199; in original box) $12.00

FOR SALE OR TRADE

****

REPRODUCTIONS OF RED PUSHBUTTONS for late 30's Philco radios ($6.00 per set). Send me an original button so that I may match the length. H. Brams, 2427 Durant #4, Berkeley, CA 94704.

****

SELL OLD RADIOS, ETC. FOR THE new collector. Four lists available on radios, magazines, books and misc. $1.00 each list (refundable on order) W2GHF, 45 Allen Dr., Woodstock, NY 12498.

****

RADIO DIAGRAMS $1.25 each. Willis Housel, 3311 S. 54, Lincoln Nebraska 68506.

****

COMPLETE LINE OF DIAMOND NEEDLES for juke boxes; AMI, Rock-ola, Seeburg, Wurlitzer. Please write for listing and prices. KEITH ELECTRONICS, Lock Haven. PA 17745 Phone (717) 748-7163

****

ADAMS MORGAN (PARAGON) 1922 catalog reprint. VT control, crystal, radios, transmitter,, etc. 16 pages illustrared, $2.95 ea. plus .50 handling mailing. Cecil Bounds, Pine Springs Rte. Carlsbad, NM 88220. ...

****

FOR SALE: AUTHENTIC REPLICAS: FRONT PLATES FOR AK VARIO COUPLERS, VARIOMETERS, TYPE 11 TUNER, DIALS, KNOBS, POINTERS, BINDING POST NUTS, PUSH BUTTONS, BELT DRIVE PULLEYS FOR AK AND MUCH MORE. SASE FOR LISTINGS. K. PARRY, 17557 Horace, Granada Hills, CA 91344. .....

****

FOR SALE OR TRADE: OLD RADIO BOOKS, next 5 sales lists for a $1.00. RADIOGRAPHICS BOOKS, Box 18492, Cleveland Heights, OH.... 44118. .....

****

COMPLETE LINE OF DIAMOND NEEDLES for for juke boxes, AMI, ROCK-OLA, SEEBURG, WURLITZER, Please write for listing and prices. KEITH ELECTRONICS, 209 Bellefonte Ave., lock haven, PA 17745. Phone (717) 748-7163 ...

****

FOR SALE: RCS-728 power supply now in 9th year of manufacture. Do you have yours yet? Send SASE for spec sheet to: Gary Schneider, 6848 Commonwealth, Parma Hgts., Ohio 44130..

****

FOR SALE OR TRADE: Edison T-shirts and tote bags! Send for descriptive flyer. Phonograph postcards, send stamp for sample New Amberola, 37 Caledonia, St. Johnsbury VT 05819...

****

FOR SALE OR TRADE

****

FOR SALE: CATHEDERAL, battery and AC radios from 1920's and 1930's. Please send large S.A.S. E. for list. J. Albert Warren, Box 279, Church St., Waverly, PA 18471.

****

FOR SALE: CATHEDERAL RADIOS Atwater Kent breadboards. Outside horn phonographs. Large list $1.00. Charles Seidel, 925 Starlite, Grants Pass, OR 97526

****

TELKOM ROARING '20's DECORATOR TELEPHONE

NEW ROARING 20'S DECORATOR TELEPHONE. ROTARY DIAL AND RINGER WITH VOLUME CONTROL. FCC APPROVED, MODULAR PLUG. COLOR: IVORY, ORDER TODAT. $89.95 POSTPAID. KEITH ELECTRONICS, 209 BELLEFONTE AVE., LOCK HAVEN, PA 17745

****

SINCE 1975 "RADIO AGE" MAGAZINE has featured articles on the history of early radio, restoration hints, biographical sketches of radio pioneers along with lots of photographs and classified ads. "Radio Age" is published monthly except July and August. Subscriptions are $11.00 for 1st class mailing and $8.50 for 2nd class mailing. Send check or money order to Radio Age, 636 Cambridge Road, Augusta, GA 30909. Sample $1.00.

****

MERRY CHRISTMAS
HAPPY NEW YEAR

****

FOR SALE OR TRADE

****

FOR SALE ARMY BC-9A - very nice $150.00, Aeriola SR. & amp. no tubes $200.00, Magnavox R-3-horn -nice - $60.00, Want audio for Kennedy VI. Bob Lane, 2301 Independence Ave. Kansas City, Mo 64124.

****

AK MODEL 67 in hi-boy cabinet, complete, RARE model - $50.00 can't ship. Silvertone model 6048 in TM cabinet with vibrator power supply $25.00. Charles Fowkes, WB4BOM, 4903 29th Ave. W., Bradenton, FL 33505, Tel. (813) 792-4049.

****

VINTAGE RADIO & ELECTRONICS - Repairs on all type, radios and T.V.'s. Schematics available for $1.00 each. Phonograph needles, send old needle. Transformers rewound or wound, any voltage you need. 1419 8th St. - Rockford, IL 61104. Telephone - (815) 964-3221.

****

FOR SALE: 3 HRO RECEIVERS, 3 Hallicrafters, Western Electric 7-A amplifier w/tubes $149.50, Radiola 17 good working condition $58.00, Matching speaker $20.00, Crosley 51 w/tubes $78.00. List for S.A.S.E. and quarter. W1VSR, 1014 Main St., Dalton MA 01226.

****

SUPREME RADIO DIAGRAM MANUALS, useful 5 volumes, "Nostalgia Special," only $8. Beitman, 1760 Balsam, Highland Park, IL 60035.

****

MERRY CHRISTMAS
HAPPY NEW YEAR

****

BACK ISSUES

ORDER NOW!

All 10 ror 1073...$8.00
Single..$1.00
All 10 for 1974...$6.00
Single..75¢
All 10 for 1975...$5.00
Single..75¢
All 10 for 1976...$5.00
Single..75¢
All 10 for 1977...$5.00
Single..75¢
All 10 for 1978...$5.00
Single..75¢
All 10 for 1979...$5.00
Single..75¢
Single issue for 1980 $1.00

THE HORN SPEAKER
Box 53012
Dallas, Texas 75253

FOR SALE OR TRADE

****

Philco 4 band cathederal 16B $150.00
Burns speaker with celluloid horn $130.00
Western Electric 518W horn $95.00
Magnavox R-2 . . . . . $95.00
Magnavox M-4 . . . . . $70.00
Magnavox M-1 . . . . . $50.00
Utah metal "U" shaped horn $40.00
Radiola 100A - 100 speakers ... . $35.00 each
AK-E - E-2 .....$50.00 each
Other speakers . . $25.00 and up
Radiola 17 & 18 elec. record. . . . . $85.00 each
AK-37 . . . . . .$90.00
AK-44 elect. record. ...$110.00
GE-A82 4 band deco $85.00
Revolutionary war period electrostatic device also used in early electrotherapy 1760-1780. Doug Dexter, 151 Hudson St. New York, NY 10013 (212) 226-4885.

****

I WOULD LIKE TO THANK ALL THOSE who have responded to my automotive radio items wanted ads. Sorry I can't buy it all, it's a problem when an item costs more to ship than its worth. All the best to you and yours in the holiday season. Marvin Roth, 14500, LaBelle, Oak Park, Michigan 48237.

****

ANTIQUE RADIOS AND RECORDS. SEND S.A.S.E. TO ARTHUR HARRISON, 1021 FALCON DRIVE, COLUMBIA, MO 65201.

****

TRADE OLD RADIOS - CATALOGS - literature - parts - tubes for old stringed musical instruments - fiddles - guitars - mandolins - banjos - etc. Regardless of condition. Please describe. Cecil Bounds, Pine Springs Rte., Carlsbad, NM 88220.

****

MERRY CHRISTMAS
HAPPY NEW YEAR

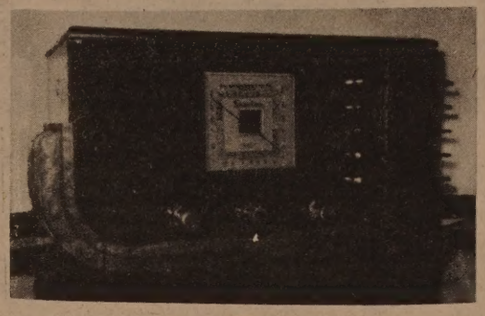
****

Wanted

AUTOMOTIVE RADIOS AND PARTS. VIBRATORS, new only, 6 volt and 12 volt 4, 3, 5 prong. Paying average $2.00 each. 1930's and 1940's original equipment radios. Antennas. CASH, SHIPPING, and FINDERS FEES PAID. Thank you. Marvin Roth, 14500 LaBelle Oak Park, MI 48237 Phone (313) 399-5993.

WANTED

RAYTHEON TELEVISOR LAMP FOR JENKINS Scanning Disc TV. Top price paid for scanners. Bill Russell, 6463 1/2 Fulton Ave. Van Nuys, CA 91401 (213) 989-4086.



COLORED MIRRORED RADIOS (blue, peach and green) wanted by obsessed collector. I'm also interested in colored mirrored clocks. Can use any unusual items from art deco period, such as chrome radios, etc. Also wanted. Philco Predicta television sets, coin operated radios. Barbara Gorton, Box 1252, Dayton, OH 45401. (513) 253-5073 evenings.

SIX ALIKE UV99 tube sockets or tubing 1 inch inside diameter. Anybody publish a booklet on early Atwater Kent breadboard radios before model 12? I want details of every set made by AK and hook-ups recommended by AK for units sold early with mounting board dimensions for each set. Detailed hook-ups for each set. Need a Pacent potentiometer 400 or 500 ohms or similar make in OK condition. J. N. Clapp, 1202 W 5th Street, DeWitt, Iowa 52742.

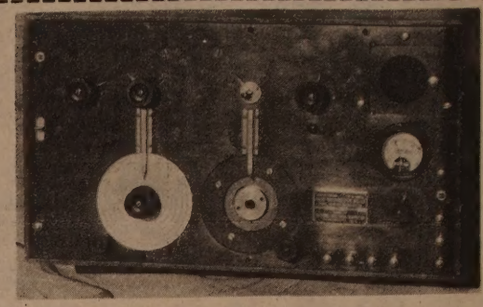
WANTED: TRANSFORMERS FOR RADIOLA III-A; MATCHING SPEAKER FOR RADIOLA 33; COIL SETS D,H,J AND AA FOR NATIONAL HRO-50TI; WD-11 ADAPTORS TO STANDARD 4-PIN; 100' COTTON OR SILKED WRAPPED STRANDED WIRE FOR RADIOLA 28 ANTENNA. CASH OR HAVE HUNDREDS OF ITEMS TO TRADE. JACK JAMES, 1418 CAYWOOD, HOUSTON, TEXAS 77055 (713) 686-0698.

WANTED- 130 KC IF transformers dial AK627 Cathederal, Bob Nicholson, 3423 Long, Topeka, KS 66605.

WANTED FOR DISPLAY: Scanning disc television, Patsy Hicken, WCSC Broadcast Museum, 80 Alexander Street, Charleston, S.C. 29402. (803) 723-8371....

ADVERTISE IN THE HORN SPEAKER

WANTED



WANTED: THE TWO KNOBS and the 4 1/2 inch tuning dial missing from the BC-131 set as pictured. These knobs and dials are found on several wireless sets. Will trade for these or buy a junker set for parts. Don Smith, 4522 Boynton Pl., Madison, WI 53714, (608) 241-4942.

CROSLEY 59 CHASSIS, working or not; early odd-ball AC sets, Kellogg tube sets, Rogers batteryless sets & suitcase portables pre 1930. Will pay cash or trade for "Pup", Crosley 50, Mayflower speaker and other goodies. Rosenthal, 507 S. Maryland Ave., Wilmington, DE 19804.

WANTED: 1928-1940 THEATER Horns and Drivers, particularly W-E and RCA. Shearer Two-Way Theater Speaker. Cinaudagraph PE-27 and others. W-E 26A Multi-cell. Rayleigh Disc. Rola Horn Speaker. Rola "Pedestal" Cone Speaker. W-E 713-A H.F. Driver. Call (501) 777-6751. Jim Hunter, % Klipsch and Assoc., P. O. Box 688, Hope, AR 71801..

WANTED: CHASSIS and SPEAKER FOR A BRUNSWICK MODEL 16. (Vol. II Riders) Jack D. Minnaert, 409 J. Ave. N. W., Cedar Rapids, Iowa 52405.

WANTED; PANTOGRAPH ENGRAVING MACHINE, prefer Hermese or Micro or one that is suitable for engraving bakelite radio panels. Must also have type and be complete with motor. Ralph G. Maddox, Vali-Hi Farm, Purgitsville, WV 26852. Tel. (304) 289-3069.

EARLY BREADBOARD COUPLED TUNER, SOCKETS, VAR CONDENSER, FIXED RF TRANSFORMERS NUMBERS 1 & 2, and a publication which starts with the first sets made by ATWATER KENT to be assembled at home. I believe RADIO AGE had such a publication at one time. Tell me what parts, sets you need -- maybe we can trade? J.N. Clapp, 1202 W 5th Street, DeWitt Iowa 52742.

PUETT ELECTRONICS

PUBLISHERS OF P.O. BOX 28572 DALLAS TEXAS 75228

ANTIQUE RADIO TOPICS &
THE CLASSIC RADIO NEWSLETTER

LIST NO. 18A

how to order:

(1) MAKE ALL CHECKS OR MONEY ORDERS PAYABLE TO PUETT ELECTRONICS. ALL PAYMENTS MUST BE IN U.S. FUNDS AND NEGOTIABLE WITHOUT PAYMENT OF A BANK COLLECTION FEE. MONEY ORDERS ISSUED BY POST OFFICES IN CERTAIN COUNTRIES (CANADA FOR EXAMPLE) ARE ACCEPTABLE IF THEY CAN BE CASHED IN A U.S. POST OFFICE.

(2) ALL ORDERS ARE POSTPAID AND INSURED. THE PRICE OF ALL ITEMS INCLUDES POSTAGE AND INSURANCE CHARGES.

(3) TEXAS RESIDENTS ONLY - ADD 5% STATE SALES TAX.

(4) YOU CAN USE YOUR MASTER CHARGE OR VISA TO CHARGE YOUR PURCHASES. VISA CUSTOMERS SEND YOUR ACCOUNT NUMBER AND EXPIRATION DATE WITH YOUR ORDER. MASTER CHARGE CUSTOMERS SEND YOUR ACCOUNT NUMBER, YOUR INTERBANK NUMBER (above your name on your card) AND YOUR EXPIRATION DATE. WE MUST HAVE THIS INFORMATION IF YOU WISH TO CHARGE YOUR PURCHASES.

IN A HURRY! You may call J. W. F. Puett at his residence from 9:00 AM to 10:00 PM Central Standard or Central Standard Daylight Time. We will be glad to help you with free technical consultation. 214 - 321-0927 or 327-8721.

NEW! JUST OUT!! ANTIQUE RADIO CATALOG No. 18A -- **EVERYTHING FOR ANTIQUE RADIO RESTORATION**

APPROXIMATELY 800 DIFFERENT TUBE TYPES IN STOCK!!
INTERSTAGE & POWER TRANSFORMERS, CAPACITORS, RESISTORS, DIAL LAMPS, ETC.
PUBLICATIONS, LISTS, BOOKS, SCHEMATIC DIAGRAMS, TECHNICAL DATA, INSTRUCTION MANUALS, ETC.
ORDER YOUR COPY TODAY --- ONLY $1.00 POSTPAID!!

ANTIQUE RADIO TUBES

HERE ARE A FEW OF THE 800 DIFFERENT TYPES OFFERED IN OUR CATALOG No. 18A! ALL TUBES ARE GUARANTEED. SEE OUR POLICY STATED IN CATALOG.

				6J7	$5	7A6	$5	24A	$6	50A5	$4
				6K5	$4	7A7	$5	25L6	$4	50B5	$4
				6K6	$4	7A8	$5	25Z5	$4	50C5	$4
				6K7	$5	7B5	$4	25Z6	$4	50L6	$4
		2A6	$5	6K8	$5	7B6	$5	26	$7	51	$5
		3Q5	$4	6L5	$5	7B7	$5	27	$5	55	$6
0D3	$3	3V4	$4	6L6	$4	7B8	$5	30	$6	56	$4
0Z4	$4	5AZ4	$6	6L7	$5	7C5	$4	32	$5	57	$4
1A7	$4	5U4	$3	6Q7	$5	7C6	$5	34	$5	58	$5
1H5	$4	5Y3	$4	6SA7	$4	7C7	$5	35	$5	70L7	$6
1L6	$9	5Y4	$4	6SB7	$4	7F8	$7	35A5	$5	71A	$8
1LA6	$5	5Z3	$4	6SC7	$4	7G7	$5	35L6	$4	75	$5
1LB4	$5	6A7	$7	6SG7	$5	7H7	$5	35W4	$4	76	$4
1LD5	$5	6A8	$5	6SJ7	$4	7Y4	$5	35Y4	$5	77	$5
1LE3	$5	6C5	$4	6SK7	$4	10	$8	35Z5	$4	78	$5
1LN5	$5	6C6	$5	6SL7	$4	12A7	$5	36	$5	79	$5
1N5	$5	6D6	$5	6SQ7	$4	12AT6	$3	37	$5	80	$4
1R5	$3	6E5	$8	6U5	$8	12AV6	$3	38	$4	81	$7
1U4	$4	6F5	$5	6U7	$6	12B7	$5	39	$4	83V	$4
1U5	$4	6F6	$6	6V6	$3	12BA6	$3	40	$8	84	$4
1V	$6	6G5	$8	6X5	$3	12BE6	$3	41	$5	85	$5
2A3	$8	6H6	$3	7A5	$4	12K7	$5	42	$5	89	$5
2A5	$5	6J5	$4			12Q7	$5	43	$5	117L7	$6
						12AS7	$4	44	$4	117Z3	$4
						12SG7	$4	45	$7	117Z6	$5
						12SK7	$4	46	$5		
						12SQ7	$4	47	$8		
						14A7	$5	50	$8		

OLD TIME RADIO SHOWS ON CASSETTES

SEND ONE FIRST CLASS MAIL STAMP FOR OUR SHORT LIST OF PROGRAMS. HUNDREDS ARE LISTED IN OUR CATALOG No. 18A.

Amos & Andy, Fibber McGee & Molly, Inner Sanctum, etc.

IT'S NEW

THE ENCYCLOPEDIA OF ANTIQUE RADIO $7.95 POSTPAID
SIMILAR CONTENT, BUT COVERING SETS OTHER THAN THOSE INCLUDED IN Vintage Radio AND A Flick Of The Switch.

THE DIRECTORY OF ANTIQUE RADIO SERVICES $3.00 POSTPAID - *SERVICES & SOURCES THROUGHOUT THE U.S.A.*

BOOKS, BOOKLETS, LISTS & DATA

Booklets listed in (1) thru (5) below are $2. each, 3 for $5., 4 for $6. or 5 for $7.

(1) The Acquisition Of Antique Radios by J. W. F. Puett
(2) The Complete Restoration of Battery Powered Antique Radios by J. W. F. Puett
(3) The Complete Restoration of AC Powered Antique Radios by J. W. F. Puett
(4) When Was That Old Tube Made? by James R. Wilkins
(5) Antique Radio Tube Substitution by J. W. F. Puett
(6) SILVER GHOSTS by J. W. F. Puett (history of E. H. Scott) $8.95
(7) THE CLASSIC RADIO COLLECTORS HANDBOOK by J. W. F. Puett $10.00
(8) THE APPRAISAL OF ANTIQUE RADIOS by J. W. F. Puett $4.95
(9) The PUETT ELECTRONICS Super Antenna - Ground System Plans $2.00
(10) Cross Reference List of Military vs. Commercial Tube Type Numbers $1.00

See listing for Encyclopedia and Directory on this page.

SCHEMATIC DIAGRAMS

WE HAVE SCHEMATICS FOR NEARLY ANY ANTIQUE RADIO RECEIVER! Send name of manufacturer & model number of set - $1.50 postpaid. Without name of mfg. and/or model No. we will search our files for $3.00, but we must have a sketch of top of chassis showing type numbers and location of all tubes and location of front panel & dial.

APPRAISAL

WE OFFER THOROUGHLY DOCUMENTED APPRAISALS FOR INSURANCE PURPOSES. Many insurance companies offer special antique insurance policies which cover items which have been properly appraised. SEND ONE FIRST CLASS MAIL STAMP FOR OUR APPRAISAL BROCHURE.

ANTIQUE RADIO TOPICS &
THE CLASSIC RADIO NEWSLETTER

THREE PERIODICALS IN ONE!!! *YOU GET ALL THREE!!!*

ANTIQUE RADIO TOPICS --- THE CLASSIC RADIO NEWSLETTER
THE ANTIQUE RADIO NEW ACQUISITIONS LIST

SEND FOUR FIRST CLASS MAIL STAMPS FOR A SAMPLE ISSUE. PUBLISHED TEN TIMES PER YEAR. ALL SUBSCRIBERS RENEW IN JANUARY OF EACH YEAR. PLEASE WRITE FOR OUR SUBSCRIPTION RATES. CLASSIFIED ADS ARE FREE! WHEN PUETT ELECTRONICS HAS RARE TUBES TO SELL (WD-11, 99, 01A, etc.), OUR SUBSCRIBERS HAVE THE FIRST OPPORTUNITY TO PURCHASE THESE THROUGH THE ANTIQUE RADIO NEW ACQUISITIONS LIST WHICH IS SENT TO SUBSCRIBERS ONE WEEK BEFORE IT IS MADE AVAILABLE TO OTHER CUSTOMERS.

DECEMBER

THE HORN SPEAKER

1980

RADOLEK
12 Tube Superheterodyne

1932

**5582*73*
ART B CORBUS
5704 11TH AVE NW
SEATTLE WA-98107